

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: 07/27/1995

MSDS No: 4634

SOLARISORTHO® WEED-B-GON® READY-SPRAY® Lawn Weed  
Killer

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ORTHO® WEED-B-GON® READY-SPRAY® Lawn Weed  
Killer**PRODUCT DESCRIPTION:** Herbicide

### MANUFACTURER

The SOLARIS Group  
of Monsanto Company

P.O. Box 5008

San Ramon, CA 94583-0808

**EPA REG. NO.:** 239-2581 **PN:** 5606-A

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Emergency Phone** 800-454-2333

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS Registry #</u>
DMA Salt Of 2,4-D, Dimethylamine salt of 2, 4-Dichlorophenoxyacetic acid	5.6 4	2008-39-1
Dimethylamine salt of 2-(2-methyl 1-4-chlorophenoxy) propionic acid	6.0 4	32351-70-5
INERT INGREDIENTS	~ 88.3 2	

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

## 3. HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Light amber liquid

**IMMEDIATE CONCERNS:** - CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY

- DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING
- HARMFUL IF SWALLOWED
- HARMFUL IF ABSORBED THROUGH THE SKIN
- KEEP OUT OF REACH OF CHILDREN

## POTENTIAL HEALTH EFFECTS

**EYES:** The undiluted product may be moderately irritating to the eyes. Eye contact may include discomfort, tearing, swelling, redness, and blurred vision. Read the Toxicology Information section (11) for more information.

**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

**INGESTION:** This substance is slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut. See section 11, Toxicological Information.

**INHALATION:** If inhaled, this substance is considered practically non-toxic to internal organs.

## 4. FIRST AID MEASURES

**EYES:** Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician.

**SKIN:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention. Wash contaminated clothing.

**INGESTION:** Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, 1 to 2 glasses of water. Avoid alcohol. Induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. If medical advice cannot be obtained, then take person and product to the nearest medical emergency treatment center or hospital.

**INHALATION:** If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

**ADDITIONAL INFORMATION:** In case of medical emergencies involving this product, call day or night, (800) 454-2333.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** >200°F TAG CC

**EXTINGUISHING MEDIA:** CO2, Dry Chemical, Foam, Alcohol-type Foam, Water Fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

**FIRE FIGHTING PROCEDURES:** This material will not burn. Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up spilled material with paper towels and discard in trash.

**LARGE SPILL:** Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgate, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

**GENERAL PROCEDURES:** Observe all protection and safety

precautions when cleaning up spills -- see Section 8. "EXPOSURE CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed, foodstuffs fertilizers, seeds, insecticides, or fungicides. Store in a cool dry place, preferably in a locked storage area. Do not store diluted spray.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.

### PERSONAL PROTECTION

**EYES AND FACE:** Do not get this material in your eyes. Eye contact should be avoided by wearing chemical goggles or a face shield.

**SKIN:** Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including chemical resistant gloves.

**RESPIRATORY:** No special respiratory protection is normally required. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
Dimethylamine salt of 2, 4-Dichlorophenoxyacetic acid	None	10 mg/m <sup>3</sup>	None
Dimethylamine salt of 2-(2-methyl 1-4-chlorophenoxy) propionic acid	None	None	None
Nonylphenol Emulsifier	None	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**APPEARANCE:** Light amber liquid

**pH:** ~7.8 to 9.5

**BOILING POINT:** No Data Available

**FREEZING POINT:** No Data Available

**SOLUBILITY IN WATER:** Soluble

**SPECIFIC GRAVITY:** 1.03 gr/cc at 20°C

**VISCOSITY:** Same as water.

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Strong oxidants, caustics or acids may result in heat evolution.

**HAZARDOUS DECOMPOSITION:** Exposure to heat or flame may produce carbon monoxide, hydrogen chloride and nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** The results of the rabbit eye irritation study indicate that, corneal involvement and conjunctival irritation cleared by 10-14 days.

**DERMAL LD<sub>50</sub>:** Results of the rabbit skin irritation study indicated no irritation at 48 hours. The Draize Skin Primary Irritation Score (range, 0-8) for a 4-hour exposure (rabbits) is 1.4. The dermal LD50 in rabbits is greater than 5 g/kg.

**ORAL LD<sub>50</sub>:** The oral LD50 in male and female rats is 6.16 and 4.99 g/kg respectively.

**INHALATION LC<sub>50</sub>:** No product toxicology data available. The hazard evaluation found in section 3, was based on data from similar materials.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available.

**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water. Do not

contaminate water when disposing of equipment washwaters.

## 13. DISPOSAL CONSIDERATIONS

**FOR LARGE SPILLS:** Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

**PRODUCT DISPOSAL:** The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.

If necessary to dispose of partially filled product container, then securely wrap it in several layers of newspaper and discard in trash.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated

**PRIMARY HAZARD CLASS/DIVISION:** None

**UN/NA NUMBER:** NONE

**PACKING GROUP:** NO

**U.S. SURFACE FREIGHT CLASS:** Tree or weed killing compounds, NOI, Density of 20 lbs. or greater per cu. ft.

### AIR (ICAO/IATA)

**PROPER SHIPPING NAME:** Not Regulated

**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

## 15. REGULATORY INFORMATION

### UNITED STATES

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA			
ACUTE:	CHRONIC:	FIRE:	REACTIVITY: PRESSURE

YES	NO	NO	NO	GENERATING: NO
-----	----	----	----	----------------

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

**16. OTHER INFORMATION****HMIS CODES**

**FIRE: 0 HEALTH: 1 REACTIVITY: 0 PROTECTION: -**

**NFPA CODES**

**FIRE: 0 HEALTH: 1 REACTIVITY: 0 SPECIAL: -**

**APPROVAL DATE:** 09/11/1995

**REVISION SUMMARY** New MSDS

**COMMENTS:** For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

**MANUFACTURER DISCLAIMER:** This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR

OF ANY OTHER NATURE ARE MADE WITH RESPECT TO  
INFORMATION OR THE PRODUCT TO WHICH INFORMATION  
REFERS.